

Title (en)

WET FLUE GAS DESULFURIZATION SYSTEM WITH ZERO WASTE WATER LIQUID DISCHARGE

Title (de)

SYSTEM ZUR ENTSCHEFELUNG VON RAUCHGAS OHNE ABWASSERFLÜSSIGKEITSAUSSTOSS

Title (fr)

SYSTÈME DE DÉSULFURATION DE GAZ DE COMBUSTION SANS DÉCHARGE DE LIQUIDES D'EAUX USÉES

Publication

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Application

**EP 17168368 A 20170427**

Priority

US 201615141878 A 20160429

Abstract (en)

A system (10, 210, 310, 410) and a method for industrial plant (12, 212, 312, 412) or utility plant flue gas desulfurization, with zero waste water liquid discharge from a wet flue gas desulfurization system utilized therein, are disclosed herein. The wet flue gas desulfurization system (10, 210, 310, 410) is supplied an absorption liquid for contact with a flue gas to absorb flue gas acid gases. Waste water from the wet flue gas desulfurization system (10, 210, 310, 410) is heated under pressure in a heat exchanger (40, 240, 340, 440) to produce heated waste water, which is supplied to a flash vessel (46, 246, 346, 446) to produce steam. The produced steam is supplied to the flue gas upstream of a particulate collection system (20, 220, 320, 420) and the wet flue gas desulfurization system (10, 210, 310, 410), supplied to the flue gas upstream of the wet flue gas desulfurization system (10, 210, 310, 410), or supplied to absorption liquid circulated to the wet flue gas desulfurization system (10, 210, 310, 410).

IPC 8 full level

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